

Appln. No.: NOT YET ASSIGNED
PRELIMINARY AMENDMENT

LISTING OF CLAIMS:

1(Currently Amended). A piston pin bushing having an ~~characterized in that the overlay surface thereof exhibits the following~~ exhibiting parameter values at least in ~~a~~ the main load area of the bushing measured over ~~a~~ the bushing cross-section in ~~an~~ the axial direction of the bushing of:

- at a depth of at most 1.800 μm , ~~a~~ the bearing ratio ~~amounts~~ amounting to a minimum of 99.0%;
- ~~a~~ the depth of the roughness core profile ~~amounts~~ amounting to a maximum of 0.30 μm ; and
- ~~a~~ the material ratio Mrl of the roughness core profile ~~amounts~~ amounting to a maximum of 8%.

2(Currently Amended). A piston pin bushing according to claim 1, ~~characterized in that~~ wherein the material ratio Mrl of the roughness core profile amounts to a maximum of 7%.

3(Currently Amended). A piston pin bushing according to claim 1 ~~or claim 2,~~ ~~characterized in that~~ wherein the bearing ratio amounts to a minimum of 99.0% at a depth of at most 0.900 μm .

4(Currently Amended). A piston pin bushing according to claim 3, ~~characterized in that~~ wherein the depth of the roughness core profile amounts to a maximum of 0.15 μm .

5(Currently Amended). A piston pin bushing according to ~~any one of claims 1 to 4,~~ ~~characterized in that~~ claim 1, wherein the overlay consists of a lead-free copper-based alloy.

6(Currently Amended). A piston pin bushing according to claim 5, ~~characterized in that~~ wherein the overlay ~~consists of~~ is selected from the group consisting of a copper-aluminum, a copper-zinc or a copper-tin-zinc alloy.

7(Currently Amended). A piston pin bushing according to claim 1 ~~claims 1 to 6,~~ ~~characterized in that the,~~ wherein a frequency distribution of the roughness profile of the overlay topography exhibits a half width of at most 0.20 μm .

8(Currently Amended). A piston pin bushing according to claim 1 ~~claims 1 to 7,~~ ~~characterized in that the,~~ wherein a frequency distribution of the roughness profile of the overlay topography exhibits a half width of at most 0.10 μm .

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9(Currently Amended). A method of producing a piston pin bushing ~~according to any one of claims 1 to 8, characterized in that~~ having an overlay surface exhibiting parameter values at least in a main load area of the bushing measured over a cross-section in an axial direction of the bushing of:

- at a depth of at most 1.800 μm , a being ratio amounting to a minimum of 99.0%;

- a depth of roughness core profile amounting to a maximum of 0.30 μm ;
and

- a material ratio Mrl of the roughness core profile amounting to a maximum of 8%; wherein the overlay of the piston pin bushing is finished by a surface treatment method.

10(Currently Amended). A method according to claim 9, wherein ~~characterized in that~~ the overlay of the piston pin bushing is finished by plateau honing.